

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT**.

The specification of which (check only one item below):

☒ is attached hereto

☐ was filed as United States Application Serial No. on \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable)

☐ was filed as PCT international application number \_\_\_\_\_, on \_\_\_\_\_, and was  
amended under PCT Article 19 on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:

<input type="checkbox"/>	Country:	Application No.:	Filing Date:
<input checked="" type="checkbox"/>	NONE		

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<input checked="" type="checkbox"/>	Provisional No.: 60/174,012	Filed: October 18, 1999	Status: Inactive
<input checked="" type="checkbox"/>	Provisional No.: 60/160,053	Filed: October 18, 1999	Status: Inactive
<input checked="" type="checkbox"/>	Application No.: 09/686,418	Filed: October 11, 2000	Status: Pending
<input checked="" type="checkbox"/>	Application No.: 09/686,564	Filed: October 11, 2000	Status: Pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

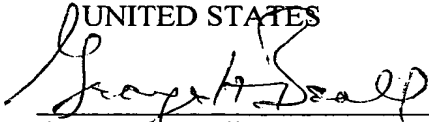
**Full Name of Inventor:** George H. Beall

**Resident Address:** 16 Woodland Drive, Big Flats, New York 14814

**Post Office Address:** same

**Citizenship:** UNITED STATES

**DATE:** 8/13/01

  
George H. Beall


**Full Name of Inventor:** Joseph E. Pierson

**Resident Address:** 626 Pierson Drive, Painted Post, New York 14870

**Post Office Address:** same

**Citizenship:** UNITED STATES

**DATE:** 8/13/01

  
Joseph E. Pierson

**Full Name of Inventor:** Linda R. Pinckney

**Resident Address:** 1546 Caton Road, Corning, New York 14830

**Post Office Address:** same

**Citizenship:** UNITED STATES

**DATE:** 8/10/01

  
Linda R. Pinckney



**UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office**

ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

OCTOBER 31, 2001

PTAS

CORNING INCORPORATED  
WALTER M. DOUGLAS  
PATENT DEPARTMENT  
SP-TI-03-1  
CORNING, NY 14831



\*101828771A\*

**UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT**

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/14/2001

REEL/FRAME: 012111/0786  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

BEALL, GEORGE H.

DOC DATE: 08/13/2001

ASSIGNOR:

PIERSON, JOSEPH E.

DOC DATE: 08/13/2001

ASSIGNOR:

PINCKNEY, LINDA R.

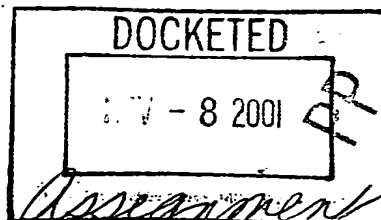
DOC DATE: 08/10/2001

ASSIGNEE:

CORNING INCORPORATED  
PATENT DEPT: SP-TI-03-1  
CORNING, NEW YORK 14831

SERIAL NUMBER: 09929549  
PATENT NUMBER:

FILING DATE: 08/14/2001  
ISSUE DATE:



012111/0786 PAGE 2

SHARON BROOKS, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

08-30-2001

PATE

To the Honorable Commissioner of



101828771

Case Name: SP01-226

documents or copy thereof.

- (1) Conveying Party(ies): George H. Beall  
Joseph E. Pierson  
Linda R. Pinckney

08/14/01

Title: FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT



Additional name(s) of conveying party(ies) attached? Yes ☐ No ☒

- (2) Receiving Party: Corning Incorporated  
Patent Dept.; SP-TI-03-1  
Corning, NY 14831

- (3) Nature of conveyance: Assignment executed: 08-13-2001, 08-13-2001, 08-10-2001.

- (4) Application number(s) and/or patent number(s) against which this assignment is to be recorded:

A. Patent Application No.(s):  
Filing date:

B. Patent No.(s):  
Filing date:

09/929549

If this document is being filed together with a new application, this assignment is also to be recorded against said application, executed on \_\_\_\_\_.

- (5) Name and address of party to whom correspondence concerning document should be mailed:

Name: Walter M. Douglas  
Reg. No. 34,510  
Corning Incorporated  
Patent Department  
SP-TI-03-1  
Corning, NY 14831  
Phone No.: (607) 974-2431

- (6) Total Number of applications and/or patents involved: one

- (7) Total Fee = \$40.00

- ☐ Enclosed (Check No. )  
☐ Included with filing fee. Check No. \_\_\_\_\_.  
☒ Authorization given by Corning Incorporated to charge deposit account number 03-3325.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

\_\_\_\_\_  
Vincent T. Kung

8/13/01  
\_\_\_\_\_  
Date

Total number of pages comprising cover sheet: three (3)

**ASSIGNMENT**

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE	<u>8-13-2001</u>
DATE	<u>8-13-2001</u>
DATE	<u>8-10-2001</u>

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

(U.S. Regular Application)

Attorney Docket No.: SP01-226

Signed at Corning, NY, this

8/13/01  
Date

George H. Beall  
George H. Beall

8/13/01  
Date

Joseph E. Pierson  
Joseph E. Pierson

8/10/01  
Date

Linda R. Pinckney  
Linda R. Pinckney

State of New York)

: ss.

County of Steuben)

On the 13<sup>th</sup> day of AUGUST 2001, before me personally came **George H. Beall** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

State of New York)

: ss.

County of Steuben)

On the 13<sup>th</sup> day of AUGUST 2001, before me personally came **Joseph E. Pierson** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

Susan M. Hynes  
Notary Public State of New York  
No. 01HY6023186  
Qualified in Steuben County  
Commission Expires April 19, 2003

State of New York)

: ss.

County of Steuben)

On the 10<sup>th</sup> day of AUGUST 2001, before me personally came **Linda R. Pinckney** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

Susan M. Hynes  
Notary Public State of New York  
No. 01HY6023186  
Qualified in Steuben County  
Commission Expires April 19, 2003

Susan M. Hynes  
Notary Public State of New York  
No. 01HY6023186  
Qualified in Steuben County  
Commission Expires April 19, 2003

(U.S.)

Attorney Docket No.: SP01-226

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**Applicant(s):** Beall, et al

**Serial No.:**

**Filed:**

**For:** FORSTERITE GLASS-CERAMICS OR  
HIGH CRYSTALLINITY AND  
CHROME CONTENT

**COMBINED  
CERTIFICATE UNDER  
37 C.F.R. § 3.73(b)  
and  
POWER OF ATTORNEY**

Assistant Commissioner for Patents  
Washington, DC 20231

**CERTIFICATE UNDER 37 C.F.R. § 3.73(b)**

**CORNING INCORPORATED**, a New York corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor(s) of the patent application identified above. A true copy of the unrecorded Assignment is attached hereto.

The undersigned has reviewed the above referenced assignment of the patent application identified above and, to the best of the undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned is empowered to sign this certificate on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.



(U.S.)

Attorney Docket No.: SP01-226

**POWER OF ATTORNEY BY ASSIGNEE**

CORNING INCORPORATED, the assignee of the full and exclusive right, title and interest in and to the accompanying application for United States Letters Patent entitled **FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT** and executed by George H. Beall, Joseph E. Pierson and Linda R. Pinckney on 08-13-2001, 08-13-2001 and 08-10-2001, respectively, appoints the practitioners associated with the Customer Number provided below (i.e., the practitioners associated with the Patent Department, Corning Incorporated) to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith. Please direct all correspondence to Vincent T. Kung at the address associated with that Customer Number.

Customer Number: 22928



**22928**

PATENT TRADEMARK OFFICE

CORNING INCORPORATED

Date: AUGUST 13, 2001

By

Mark W. Lauroesch  
Division Vice President and  
Director, Intellectual Property Law

## ASSIGNMENT

FOR VALUE RECEIVED, I, as a below named inventor, hereby sell, assign and transfer unto Corning Incorporated, a corporation organized and existing under the laws of the State of New York, having its principal place of business at Corning, New York, (hereinafter CORNING), as assignee, and unto its successors, assigns and legal representatives, the entire right, title and interest, for all countries, in and to certain inventions relating to a **FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT**, such inventions being generally described in an application for Letters Patent of the United States executed on

DATE	<u>8-13-2001</u>
DATE	<u>8-13-2001</u>
DATE	<u>8-10-2001</u>

and in any future patent applications claiming the benefit of the filing date of that application, and all the rights and privileges under any and all Letters Patents that may be granted therefore.

I request that any and all patents for said inventions be issued to CORNING, its successors, assigns and legal representatives, or to such nominees as CORNING may designate.

I agree that, when requested, I will, without charge to CORNING and at CORNING's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in CORNING, its successors, assigns and legal representatives or nominees.

I authorize and empower CORNING, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for said Convention or entered as a supplement to, and to invoke and claim such right of priority without further written or oral authorization.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of CORNING, or its successors, assigns and legal representatives or nominees to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it or entered as a supplement to it.

I covenant with CORNING, its successors, assigns and legal representatives or nominees, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at Corning, NY, this

8/13/01  
Date

8/13/01  
Date

8/10/01  
Date

George H. Beall  
George H. Beall

Joseph E. Pierson  
Joseph E. Pierson

Linda R. Pinckney  
Linda R. Pinckney

State of New York)

: ss.

County of Steuben)

On the 13<sup>th</sup> day of AUGUST 2001, before me personally came **George H. Beall** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

State of New York)

: ss.

County of Steuben)

On the 13<sup>th</sup> day of AUGUST 2001, before me personally came **Joseph E. Pierson** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

Susan M. Hynes  
Notary Public State of New York  
No. 01HY6023186  
Qualified in Steuben County  
Commission Expires April 19, 2003

State of New York)

: ss.

County of Steuben)

On the 10<sup>th</sup> day of AUGUST 2001, before me personally came **Linda R. Pinckney** known to be the person described in and who executed the foregoing instrument, and acknowledged that they executed the same.

Susan M. Hynes  
Notary Public

Susan M. Hynes  
Notary Public State of New York  
No. 01HY6023186  
Qualified in Steuben County  
Commission Expires April 19, 2003

As a below named inventor, I declare that:

My residence, Post Office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **FORSTERITE GLASS-CERAMICS OR HIGH CRYSTALLINITY AND CHROME CONTENT**.

The specification of which (check only one item below):

- ☐ is attached hereto
- ☒ was filed as United States Application Serial No. 09/929,549 on 8/14/01 and was amended on (if applicable)
- ☐ was filed as PCT international application number , on , and was amended under PCT Article 19 on (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate or 365(a) of any PCT international application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate, on the same subject matter, having a filing date before that of the application on which priority is claimed:

<input type="checkbox"/>	Country:	Application No.:	Filing Date:
<input checked="" type="checkbox"/>	NONE		

I hereby claim the benefit under Title 35 United States Code § 119(e) and § 120 of any United States application(s) or 365(c) of any PCT international application designating the United States listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 United States Code § 112, I acknowledge the duty to disclose material information as defined in Title 37 Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

<input checked="" type="checkbox"/>	Provisional No.: 60/160,093	Filed: October 18, 1999	Status: Inactive
<input checked="" type="checkbox"/>	Provisional No.: 60/160,053	Filed: October 18, 1999	Status: Inactive
<input checked="" type="checkbox"/>	Provisional No.: 60/173,863	Filed: December 30, 1999	Status: Inactive
<input checked="" type="checkbox"/>	Application No.: 09/686,418	Filed: October 11, 2000	Status: Issued
<input checked="" type="checkbox"/>	Application No.: 09/686,564	Filed: October 11, 2000	Status: Issued
	PCT Application No:	Filed:	Status:

## SUPPLEMENTAL DECLARATION

U.S. Attorney Docket No.: SP01-226

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**Full Name of Inventor:**

George H. Beall

**Resident Address:**

16 Woodland Drive, Big Flats, New York 14814

**Post Office Address:**

same

**Citizenship:**

UNITED STATES

DATE: 11/01/01

George H. Beall  
George H. Beall

**Full Name of Inventor:**

Joseph E. Pierson

**Resident Address:**

626 Pierson Drive, Painted Post, New York 14870

**Post Office Address:**

same

**Citizenship:**

UNITED STATES

DATE: 11/01/01

Joseph E. Pierson  
Joseph E. Pierson

**Full Name of Inventor:**

Linda R. Pinckney

**Resident Address:**

1546 Caton Road, Corning, New York 14830

**Post Office Address:**

same

**Citizenship:**

UNITED STATES

DATE: 11/01/01

Linda R. Pinckney  
Linda R. Pinckney